

IN THE CLAIMS

Please cancel claims 1, 9, 16, 25, and 34 - 35 without prejudice or disclaimer.

Please amend claims 2 - 8, 10 - 11, 15, 17, 19, 23 - 24, 26, 28, and 33 as follows:

1. {CANCELLED}

2. (CURRENTLY AMENDED) The apparatus of claim 34, wherein the sizing agent is alkenyl succinic anhydride.

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3. (CURRENTLY AMENDED) A non-woven web comprising ~~The apparatus of claim 2,~~

cellulose fiber;

glass fiber, and

a sizing agent which has a fast reaction rate with cellulose and which provides the mat with decreased liquid penetrability over time, wherein the sizing agent has a dry basis add-on rate of from about 0.15% to about 0.4%.

4. (CURRENTLY AMENDED) The apparatus of claim 32, wherein the sizing agent has a dry basis add-on rate of from about 0.2% to about 0.3%.

5. (CURRENTLY AMENDED) The apparatus of claim 34, wherein the sizing agent provides the mat with decreased liquid penetrability four weeks after mat production.

6. (CURRENTLY AMENDED) The apparatus of claim 34, further comprising untreated clarifier sludge.

7. (CURRENTLY AMENDED) The apparatus of claim 36, wherein the ~~sizing agent is alkenyl succinic anhydride~~ cellulose fiber is recycled cellulose fiber.

8. (CURRENTLY AMENDED) The apparatus of claim 37, wherein the ~~sizing agent has a dry basis add-on rate of from about 0.15% to about 0.4%~~ glass fiber is recycled glass fiber.

9. {CANCELLED}

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10. (CURRENTLY AMENDED) A non-woven web comprising:

[recycled] cellulose fiber;

[recycled] glass fiber, and

alkenyl succinic anhydride added as a sizing agent to provide the mat with decreased liquid penetrability over time, the alkenyl succinic anhydride having a dry basis add-on rate of from about 0.15% to about 0.4%.

11. (CURRENTLY AMENDED) The apparatus of claim 10, wherein the ~~alkenyl succinic anhydride has a dry basis add-on rate of from about 0.15% to about 0.4%~~ cellulose fiber is recycled cellulose fiber.

12. (ORIGINAL) The apparatus of claim 10, wherein the alkenyl succinic anhydride has a dry basis add-on rate of from about 0.2% to about 0.3%.

13. (ORIGINAL) The apparatus of claim 10, wherein the alkenyl succinic anhydride provides the mat with decreased liquid penetrability four weeks after mat production.

14. (ORIGINAL) The apparatus of claim 10, further comprising untreated clarifier sludge.

15. (CURRENTLY AMENDED) The apparatus of claim ~~10~~14, wherein the ~~sizing agent has a dry basis add-on rate of from about 0.15% to about 0.4%~~ glass fiber is recycled glass fiber.

16. {CANCELLED}

17. (CURRENTLY AMENDED) A method of forming a non-woven web, the method comprising:

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making a mixture of [recycled] cellulose fiber and [recycled] glass fiber;

choosing a sizing agent to provide the mat with decreased liquid penetrability over time;

adding the a sizing agent to the mixture at a dry basis add-on rate of from about 0.15% to about 0.4%;

forming the mixture into a mat;

~~choosing the sizing agent to provides the mat with decreased liquid penetrability over time.~~

18. (ORIGINAL) The method of claim 17, wherein the sizing agent is alkenyl succinic anhydride.

19. (CURRENTLY AMENDED) The method of claim 17, further comprising ~~adding the sizing agent at a dry basis add-on rate of from about 0.15% to about 0.4%~~ making the mixture with recycled cellulose fiber.

20. (ORIGINAL) The method of claim 17, further comprising adding the sizing agent at a dry basis add-on rate of from about 0.2% to about 0.3%.

21. (ORIGINAL) The method of claim 17, wherein the sizing agent provides the mat with decreased liquid penetrability four weeks after mat production.

22. (ORIGINAL) The method of claim 17, further comprising adding untreated clarifier sludge to the mixture.

23. (CURRENTLY AMENDED) The method of claim 17 22, wherein the sizing agent is alkenyl succinic anhydride.

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24. (CURRENTLY AMENDED) The method of claim 17 22, further comprising ~~adding the sizing agent at a dry basis add-on rate of from about 0.15% to about 0.4%~~ making the mixture with recycled glass fiber.

25. {CANCELLED} The method of claim 17 22, further comprising ~~adding the sizing agent at a dry basis add-on rate of from about 0.2% to about 0.3%~~ freshly preparing a dispersion which includes the sizing agent prior to adding the sizing agent.

26. (CURRENTLY AMENDED) A rigid cellular foam board comprising:
a first facer and a second facer;
a rigid cellular foam formed between the first facer and the second facer;
wherein at least one of the first facer and the second facer comprise:
[recycled] cellulose fiber;
[recycled] glass fiber, and
a sizing agent which provides the facer with decreased liquid penetrability over time, the sizing agent having a dry basis add-on rate of from about 0.15% to about 0.4%.

27. (ORIGINAL) The apparatus of claim 26, wherein the sizing agent is alkenyl succinic anhydride.

28. (CURRENTLY AMENDED) The apparatus of claim 26, wherein the cellulose fiber is recycled cellulose fiber ~~sizing agent has a dry basis add-on rate of from about 0.15% to about 0.4%.~~

29. (ORIGINAL) The apparatus of claim 26, wherein the sizing agent has a dry basis add-on rate of from about 0.2% to about 0.3%.

30. (ORIGINAL) The apparatus of claim 26, wherein the sizing agent provides the facer with decreased liquid penetrability four weeks after facer production.

31. (ORIGINAL) The apparatus of claim 26, wherein the foam is a polyisocyanurate foam.

32. (ORIGINAL) The apparatus of claim 26, wherein at least one of the first facer and the second facer further comprise untreated clarifier sludge.

33. (CURRENTLY AMENDED) The apparatus of claim 26 ~~32~~, wherein the glass fiber is recycled glass fiber ~~sizing agent is alkenyl succinic anhydride.~~

34. {CANCELLED}

35. {CANCELLED}
